Introduction how to do Unit testing with Google Test

A. REQUIREMENTS

Base requirements to build and use Google Test from a source package

- C++ standard compliant compiler
- Babel or Cmake. (sudo apt-get install cmake)

B. STEPS

- 1. Open Putty (take SSH connection) terminal or any similar Linux environment
- 2. Download the code with git: git clone https://github.com/google/googletest.git
- Check the directory path inside the directory where we have gtest framework :
 cd googletest/googletest
 pwd
- 4. Create environment variable that is pointing to directory where having gtest -framework using command: export GTEST_DIR=~<insert_your_path_here>/googletest/googletest
- 5. Create a separated folder for testing code: mkdir test_dir
- 6. Moving testing code inside this folder
- 7. Moving libgtest.a file inside this folder test_dir also
- 8. Moving inside the testing folder that has been created: cd test_dir
- 9. Compile the testing environment : g++ -isystem \${GTEST_DIR}/include -I\${GTEST_DIR} pthread -c \${GTEST_DIR}/src/gtest-all.cc
- 10. Compile the testing code : g++ -isystem \${GTEST_DIR}/include -pthread unit_test_case.c code_to_be_tested.c Gtest_main.c libgtest.a -o my_test
- 11. Checking the testing result : ./my_test